

# SEQUENCE LISTING

<11> Owen, Donald R.

<12> SHORT BIOACTIVE PEPTIDES

<13> HELIX027

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<17> PatentIn Ver. 2.1

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Glu Ala Lys Ala Leu Gly  
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Lys Ala Leu

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Lys Ala Leu

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Leu Ala Lys

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Val Lys Ile Leu Lys Lys  
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Leu

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Ala Lys Lys Trp Lys Leu  
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Ala Lys

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Ala Lys Lys Trp Lys Leu  
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Lys Lys Leu Ala Lys Lys Leu  
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Lys Lys Leu Ala Lys Lys Leu  
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Ala Lys Leu Ala Leu Ala Leu Lys Ala Leu Ala Leu Lys Ala Leu  
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Lys Lys Ala Leu  
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Lys Val Leu Thr Thr Gly Leu  
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Ile Arg Asn

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Ile Ser Trp Ile Lys Arg Lys Arg Gln Gln

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Phe Ala Lys Leu Phe Ala Lys Leu Ala Lys Lys Phe Ala Leu  
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<210> 84  
<211> 13  
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Phe Lys Leu Ala Phe Lys Leu Ala Lys Lys Ala Phe Leu  
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<223> AMIDATION

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Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys  
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<210> 86

<211> 13

<212> FRT

<213> SYNTHETIC

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<221> MOD\_RES

<222> (13)

<223> AMIDATION

<400> 86

Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Val Leu  
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<210> 87

<211> 13

<212> FRT

<213> SYNTHETIC

<220>

<221> MOD\_RES

<222> (13)

<223> AMIDATION

<400> 87

Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ile Leu  
1 5 10



<210> 88  
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Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Glu Leu  
1 5 10

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<400> 89  
Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ser Leu  
1 5 10

<210> 90  
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<220>  
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<222> (5)  
<223> AMIDATION

<400> 90  
Phe Ala Lys Leu Ala  
1 5

<210> 91  
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<222> (5)  
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Phe Ala Lys Leu Phe  
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<210> 92  
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<222> (5)  
<223> AMIDATION

<400> 92  
Lys Ala Lys Leu Phe  
1 5

<210> 93  
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<400> 93  
Lys Trp Lys Leu Phe  
1 5

<210> 94  
<211> 13  
<212> PPT  
<213> SYNTHETIC

<220>  
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<400> 94  
Phe Gly Lys Gly Ile Gly Lys Val Gly Lys Lys Leu Leu  
1 5 10

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<212> PPT  
<213> SYNTHETIC

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<400> 95  
Phe Ala Phe Gly Lys Gly Ile Gly Lys Val Gly Lys Lys Leu Leu  
1 5 10 15

<110> 96  
<111> 12  
<112> PPT  
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<220>  
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<400> 96  
Phe Ala Lys Ala Ile Ala Lys Ile Ala Phe Gly Lys Gly Ile Gly Lys  
1 5 10 15

Val Gly Lys Lys Leu Leu  
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<110> 97  
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<400> 97  
Phe Ala Lys Leu Trp Ala Lys Leu Ala Phe Gly Lys Gly Ile Gly Lys  
1 5 10 15

Val Gly Lys Lys Leu Leu  
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<110> 98  
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<112> PPT  
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<400> 98  
Phe Ala Lys Leu Trp Ala Lys Leu Ala Lys Lys Leu  
1 5 10

<10> 99  
<11> 14  
<12> PRT  
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<20>  
<21> MOD\_RES  
<22> (12)  
<23> AMIDATION

<400> 99  
Phe Ala Lys Gly Val Gly Lys Val Gly Lys Lys Ala Leu  
1 5 10

<10> 100  
<11> 15  
<12> PRT  
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<20>  
<21> MOD\_RES  
<22> (15)  
<23> AMIDATION

<400> 100  
Phe Ala Phe Gly Lys Gly Ile Gly Lys Ile Gly Lys Lys Gly Leu  
1 5 10 15

<10> 101  
<11> 16  
<12> PRT  
<13> SYNTHETIC

<20>  
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<22> (16)  
<23> AMIDATION

<400> 101  
Phe Ala Lys Ile Ile Ala Lys Ile Ala Lys Ile Ala Lys Lys Ile Leu  
1 5 10 15

<10> 102  
<11> 15  
<12> PRT  
<13> SYNTHETIC

<20>  
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<22> (15)  
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<400> 102  
Phe Ala Phe Ala Lys Ile Ile Ala Lys Ile Ala Lys Lys Ile Ile

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<110> 103  
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<112> PRT  
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<220>  
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<222> (7)  
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<400> 103  
Phe Ala Leu Ala Leu Lys Ala  
1 5

<110> 104  
<111> 12  
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<113> SYNTHETIC

<220>  
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<222> (12)  
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<400> 104  
Lys Trp Lys Leu Ala Lys Lys Ala Leu Ala Leu Leu  
1 5 10

<110> 105  
<111> 12  
<112> PRT  
<113> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (12)  
<223> AMIDATION

<400> 105  
Phe Ala Lys Ile Ile Ala Lys Ile Ala Lys Lys Ile  
1 5 10

<110> 106  
<111> 12  
<112> PRT  
<113> SYNTHETIC

<220>  
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<222> (12)  
<223> AMIDATION

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<400> 106  
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu  
1 5 10

<210> 117  
<211> 9  
<212> PRT  
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<220>  
<221> MOD\_RES  
<222> (8)  
<223> AMIDATION

<400> 107  
Phe Ala Leu Lys Ala Leu Lys Lys  
1 5

<210> 108  
<211> 13  
<212> PRT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (13)  
<223> AMIDATION

<400> 108  
Lys Tyr Lys Lys Ala Leu Lys Lys Leu Ala Lys Leu Leu  
1 5 10

<210> 109  
<211> 17  
<212> PRT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (17)  
<223> AMIDATION

<400> 109  
Phe Lys Arg Leu Ala Lys Ile Lys Val Leu Arg Leu Ala Lys Ile Lys  
1 5 10 15

Arg

<210> 110  
<211> 13  
<212> PRT

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<010>

<011> MOD\_RES

<012> (13)

<013> AMIDATION

<400> 110

His Ala Lys Leu Ala Lys Lys Ala Leu Ala Lys Leu Leu  
1 5 10

<010> 111

<011> 13

<012> PPT

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<010>

<011> MOD\_RES

<012> (13)

<013> AMIDATION

<010>

<011> MOD\_RES

<012> (13)

<013> AMIDATION

<400> 111

Lys Ala Lys Leu Ala Lys Lys Ala Leu Ala Lys Leu Leu  
1 5 10

<010> 112

<011> 17

<012> PPT

<013> SYNTHETIC

<010>

<011> MOD\_RES

<012> (17)

<013> AMIDATION

<400> 112

Lys Leu Ala Leu Lys Leu Ala Leu Lys Ala Leu Lys Ala Ala Lys Leu  
1 5 10 15

Ala

<010> 113

<011> 11

<012> PPT

<013> SYNTHETIC

<010>

<011> MOD\_RES

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<122> (11)  
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<400> 113  
Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys  
1 5 10

<110> 114  
<111> 13  
<112> FRT  
<113> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (13)  
<223> AMIDATION

<400> 114  
Phe Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Gly Leu  
1 5 10

<110> 115  
<111> 1  
<112> FRT  
<113> SYNTHETIC

<400> 115  
Met  
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<110> 116  
<111> 13  
<112> FRT  
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<220>  
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<400> 116  
Val Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Val Leu  
1 5 10

<110> 117  
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<112> FRT  
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<220>  
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<400> 117  
Tyr Ala Lys Leu Leu Ala Lys Leu Ala Lys Lys Ala Leu  
1 5 10

<210> 118  
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<212> PPT  
<213> SYNTHETIC

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<221> MOD\_RES  
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<223> AMIDATION

<400> 118  
Lys Leu Leu Lys Leu Leu Lys Leu Tyr Lys Lys Leu Leu Lys Leu  
1 5 10 15

Leu

<210> 119  
<211> 26  
<212> PPT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (16)  
<223> AMIDATION

<400> 119  
Phe Ala Val Gly Leu Arg Ala Ile Lys Arg Ala Leu Lys Lys Leu Arg  
1 5 10 15

Arg Gly Val Arg Lys Val Ala Lys Asp Leu  
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<210> 120  
<211> 16  
<212> PPT  
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<220>  
<221> MOD\_RES  
<222> (16)  
<223> AMIDATION

<400> 120  
Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Lys Ala Leu  
1 5 10 15

<210> 121  
<211> 16  
<212> PRT  
<213> SYNTHETIC

<400> 121  
Lys Leu Ala Lys Lys Leu Ala Lys Leu Ala Lys Ala Leu  
1 5 10 15

<210> 122  
<211> 9  
<212> PRT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (9)  
<223> AMIDATION

<400> 122  
Lys Trp Lys Lys Leu Ala Lys Lys Trp  
1 5

<210> 123  
<211> 9  
<212> PRT  
<213> SYNTHETIC

<400> 123  
Lys Trp Lys Lys Leu Ala Lys Lys Trp  
1 5

<210> 124  
<211> 17  
<212> PRT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (17)  
<223> AMIDATION

<400> 124  
Lys Leu Trp Lys Lys Trp Ala Lys Lys Trp Leu Lys Leu Trp Lys Ala  
1 5 10 15

Trp

<210> 125  
<211> 16  
<212> PRT  
<213> SYNTHETIC

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<400> 125  
Lys Leu Trp Lys Lys Trp Ala Lys Lys Trp Leu Lys Leu Trp Lys Ala  
1 5 10 15

<110> 126  
<111> 11  
<112> PFT  
<113> SYNTHETIC

<120>  
<121> MOD\_RES  
<122> (11)  
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<400> 126  
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu  
1 5 10

<110> 127  
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<112> PFT  
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<120>  
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<400> 127  
Phe Ala Leu Ala Lys Ala Leu Lys Lys Ala Leu  
1 5 10

<110> 128  
<111> 12  
<112> PRT  
<113> SYNTHETIC

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<123> AMIDATION

<400> 128  
Phe Ala Leu Ala Leu Lys Leu Ala Lys Lys Ala Leu  
1 5 10

<110> 129  
<111> 6  
<112> PRT  
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<221> MOD\_RES  
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<223> AMIDATION

<400> 119  
Phe Ala Leu Leu Lys Leu  
1 5

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<211> 28  
<212> PFT  
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<220>  
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<222> (10)  
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<400> 130  
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys  
1 5 10

<210> 131  
<211> 10  
<212> PFT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (10)  
<223> AMIDATION

<400> 131  
Phe Ala Leu Lys Ala Leu Lys Lys Ala Leu  
1 5 10

<210> 132  
<211> 11  
<212> PFT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (11)  
<223> AMIDATION

<400> 132  
Phe Ala Leu Leu Lys Ala Leu Lys Lys Ala Leu  
1 5 10

<210> 133  
<211> 4  
<212> PFT  
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<213> SYNTHETIC

<210>

<211> MOD\_RES

<212> (4)

<213> AMIDATION

<400> 133

Lys Trp Lys Lys

1

<210> 134

<211> 5

<212> PET

<213> SYNTHETIC

<210>

<211> MOD\_RES

<212> (5)

<213> AMIDATION

<400> 134

Lys Trp Lys Lys Leu

1

5

<210> 135

<211> 9

<212> PET

<213> SYNTHETIC

<210>

<211> MOD\_RES

<212> (9)

<213> AMIDATION

<400> 135

Lys Phe Lys Lys Leu Ala Lys Lys Phe

1

5

<210> 136

<211> 9

<212> PET

<213> SYNTHETIC

<210>

<211> MOD\_RES

<212> (9)

<213> AMIDATION

<400> 136

Lys Phe Lys Lys Leu Ala Lys Lys Trp

1

5

<210> 137  
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<212> PPT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (11)  
<223> AMIDATION

<400> 127  
Phe Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala  
1 5 10

<210> 138  
<211> 12  
<212> PPT  
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<400> 138  
Phe Ala Leu Leu Lys Ala Leu Leu Lys Lys Ala Leu  
1 5 10

<210> 139  
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<212> PPT  
<213> SYNTHETIC

<220>  
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<400> 139  
Phe Ala Leu Ala Leu Lys Leu Ala Lys Lys Leu  
1 5 10

<210> 140  
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<212> PPT  
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Leu Lys Lys Leu Ala Lys Leu Ala Leu Ala Phe  
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<400> 141  
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu  
1 5 10

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<212> PPT  
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<220>  
<221> MOD\_RES  
<222> (10)  
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<400> 142  
Phe Ala Leu Ala Leu Lys Leu Lys Lys Leu  
1 5 10

<210> 143  
<211> 10  
<212> PPT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (10)  
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<400> 143  
Phe Ala Leu Ala Leu Lys Ala Lys Lys Leu  
1 5 10

<210> 144  
<211> 4  
<212> PPT  
<213> SYNTHETIC

<220>  
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<400> 144  
Phe Ala Leu Ala  
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<210> 145  
<211> 5  
<212> PFT  
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<220>  
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<222> (5)  
<223> AMIDATION

<400> 145  
Trp Ala Leu Ala Leu  
1 5

<210> 146  
<211> 23  
<212> PFT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (23)  
<223> AMIDATION

<400> 146  
Gly Ile Gly Lys Phe Leu His Ala Ala Lys Lys Phe Ala Lys Ala Phe  
1 5 10 15

Val Ala Glu Ile Met Asn Ser  
20

<210> 147  
<211> 23  
<212> PFT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (23)  
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<400> 147  
Phe Ala Lys Lys Phe Ala Lys Lys Phe Lys Lys Phe Ala Lys Lys Phe  
1 5 10 15

Ala Lys Phe Ala Phe Ala Phe  
20



<210> 148  
<211> 10  
<212> PRT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (10)  
<223> AMIDATION

<400> 148  
Lys Lys Val Val Phe Lys Val Lys Phe Lys  
1 5 10

<210> 149  
<211> 10  
<212> PRT  
<213> SYNTHETIC

<220>  
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<222> (10)  
<223> AMIDATION

<400> 149  
Phe Lys Val Lys Phe Lys Val Lys Val Lys  
1 5 10

<210> 150  
<211> 38  
<212> PRT  
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<220>  
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<222> (38)  
<223> AMIDATION

<400> 150  
Leu Pro Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Val Gly Arg Asn  
1 5 10 15

Ile Arg Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly  
20 25 30

Glu Ala Lys Ala Leu Gly  
35

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<221> MOD\_RES  
<222> (23)  
<223> AMIDATION

<400> 151  
Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu  
1 5 10 15

Ala Lys Leu Ala Lys Lys Leu  
20

<210> 152  
<211> 15  
<212> PRT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (15)  
<223> AMIDATION

<400> 152  
Val Ala Lys Ala Leu Lys Ala Leu Leu Lys Ala Leu Lys Ala Leu  
1 5 10 15

<210> 153  
<211> 13  
<212> PRT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (13)  
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<400> 153  
Val Ala Lys Phe Leu Ala Lys Phe Leu Lys Lys Ala Leu  
1 5 10

<210> 154  
<211> 23  
<212> PRT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (23)  
<223> AMIDATION

<400> 154  
Val Ala Lys Lys Phe Ala Lys Lys Phe Lys Lys Phe Ala Lys Lys Phe  
1 5 10 15

Ala Lys Phe Ala Phe Ala Phe  
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8020.  
 8021. MOD\_FES  
 8022. (19)  
 8023. AMILATION

Leu Ala Leu

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<120>
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<210> 157  
<211> 13  
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1400-157  
Val Ala Lys Leu Leu Ala Lys Ala Leu Lys Lys Leu Leu  
1 5 10

222

<110> MOD\_RES  
<111> (23)  
<113> AMIDATION

<400> 159  
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys  
1 5 10 15

Lys Ala Leu Lys Lys Ala Leu  
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<110> 159  
<111> 23  
<112> PFT  
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<400> 159  
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Ala Leu Lys Lys Leu Lys  
1 5 10 15

Lys Ala Leu Lys Lys Ala Leu  
20

<110> 160  
<111> 23  
<112> PFT  
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<222> (23)  
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<400> 160  
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Ala Lys Lys Leu Lys  
1 5 10 15

Lys Leu Ala Lys Lys Ala Leu  
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<110> 161  
<111> 23  
<112> PFT  
<113> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (23)  
<223> AMIDATION

<400> 161  
Val Ala Leu Ala Leu Lys Ala Leu Lys Lys Leu Leu Lys Lys Leu Lys  
1 5 10 15

Lys Leu Ala Lys Lys Ala Leu  
20

<210> 162  
<211> 23  
<212> PPT  
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<400> 162  
Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu  
1 5 10 15

Ala Lys Leu Ala Leu Ala Leu  
20

<210> 163  
<211> 30  
<212> PPT  
<213> SYNTHETIC

<400> 163  
Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu  
1 5 10 15

Ala Lys Leu Ala Leu Ala Leu Lys Ala Leu Ala Leu Lys Ala  
20 25 30

<210> 164  
<211> 18  
<212> PPT  
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<220>  
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<222> (13)  
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<400> 164  
Phe Ala Lys Lys Leu Ala Lys Lys Leu Lys Lys Leu Ala Lys Lys Leu  
1 5 10 15

Ala Lys

<210> 165  
<211> 12  
<212> PPT  
<213> SYNTHETIC

<220>  
<221> MOD\_RES  
<222> (13)  
<223> AMIDATION

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<400> 165

Phe Ala Lys Leu Leu Ala Leu Ala Leu Lys Lys Ala Leu  
1 5 10